



MASTER COURSE OUTLINE

A. AUTO 1322 Wheel Alignment

B. COURSE DESCRIPTION:

This course covers the theory and practice of alignment and adjustments used in various front and rear suspension systems to properly perform wheel alignments. This course, along with other program courses, satisfies the task requirements set forth in Section IV (D) of the National Automotive Technicians Education Foundation (NATEF) accreditation. **(3 Cr – 1 lect, 2 lab)**

C. ****Core Theme:** Critical Thinking and Ethical and Civic Responsibility

D. MAJOR CONTENT AREAS:

- Pre-alignment inspection
- Suspension dynamics and alignment angles
- Alignment adjustments
- Alignment problem diagnosis

E. GOAL TYPES, OBJECTIVES, AND OUTCOMES:

<u>GOAL</u>	<u>OBJECTIVES</u>	<u>OUTCOMES</u>
**Critical Thinking	Students will be able to gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected.	The student will successfully 1. determine what repairs and adjustments are necessary using alignment readings.
**Ethical and Civic Responsibility	analyze and reflect on the ethical dimensions of legal, social, and scientific issues.	1. describe the ethical responsibility involved in performing vehicle repair.
CS	demonstrate the procedures needed to perform four-wheel alignments on cars and light trucks.	1. perform a complete and thorough safety and wear inspection. 2. identify tire tread wear patterns. 3. define alignment angles. 4. perform four-wheel computer alignment check.
CS	demonstrate the procedures needed to ensure that the car tracks straight, does not wear the tires, and is safe for the road.	1. identify alignment repair and/or adjustment needs. 2. adjust alignment angles. 3. test drive vehicle to verify repair.

F. SPECIAL INFORMATION:

This course may require use of the Internet, the submission of electronically prepared documents and the use of a course management software program. Students who have a disability and need accommodations should contact the instructor or the Student Success Center at the beginning of the semester. This information will be made available in alternative format, such as Braille, large print, or current media, upon request.

G. COURSE CODING INFORMATION: Course Code S/Class Maximum 25; Letter Grade

Revision date: 03/09/11; 11/29/17

AASC Approval date: 12/12/17

*Riverland Community College Disciplines	MnTC Goal Number
Communication	1
Natural Sciences	3
Mathematics/Logical Reasoning	4
History and the Social & Behavioral Sciences	5
Humanities and Fine Arts	6

**Riverland Community College Core Themes	MnTC Goal Number
Critical Thinking	2
Human Diversity	7
Global Perspective	8
Ethical and Civic Responsibility	9
People and the Environment	10

*These five MnTC Goals have been identified as Riverland Community College Disciplines.

** These five MnTC Goals have been identified as Riverland Community College Core Themes.

NOTE: The Minnesota Transfer Curriculum “10 Goal Areas of Emphasis” are reflected in the five required discipline areas and five core themes noted in the Riverland Community College program of study guide and/or college catalog.